COOLEDGE™

COOLEDGE FABRICATED LUMINAIRES
REMOTE MOUNTING DISTANCE FOR POWER & CONTROL

A key feature of Cooledge's FABRICated Luminaires is that the power and control components may be mounted in a remote location more suitable for AC electrical connections or for maintenance access (required for Surface Mount models).

When mounting the Power & Control Mounting Plate in a remote location away from the FABRICated Luminaire the resistance of the cable causes a voltage and power drop between the Control Module and the luminaire. There is a maximum distance from the luminaire at which the power and control units may be mounted that depends upon the size of the conductors.

Use the tables below to determine the size of the conductors required to achieve the maximum "remote distance". The values shown are the maximum lengths of cable that may be used between the Power & Control Mounting Plate and the luminaire to ensure electrical integrity and should approximately correspond to the required remote distance for mounting.

High Flux	Cable Length (ft) by Wire Gauge				
Nominal Luminaire Size	18 AWG	16 AWG	14 AWG	12 AWG	10 AWG
4x4	25.0	40.0	64.0	101.5	162.0
4x6	30.5	48.5	77.5	123.5	196.0
4x8	19.5	31.0	49.0	78.5	124.5
4x10	23.5	37.5	60.0	95.5	152.0
5x5	24.5	39.0	62.0	98.5	156.5
6x6	27.0	43.0	68.5	109.0	173.5
6x8	27.0	43.0	68.5	109.0	173.5
6x9	27.0	43.0	68.5	109.0	173.5

Medium Flux	Cable Length (ft) by Wire Gauge				
Nominal Luminaire Size	18 AWG	16 AWG	14 AWG	12 AWG	10 AWG
4x4	53.5	85.5	136.0	217.0	345.0
4x6	33.0	53.0	84.5	134.0	213.5
4x8	24.0	38.0	61.0	97.0	154.0
4x10	29.0	46.0	73.5	116.5	185.5
5x5	33.0	53.0	84.0	134.0	213.0
6x6	39.0	62.0	98.5	157.0	249.5
6x8	28.5	45.5	72.5	115.0	183.0
6x9	39.0	62.0	98.5	157.0	249.5

NOTE: The values shown in the table apply to individual control channels - each of which requires its own cable and connection to the Cooledge Control Module. Where multiple channels are connected to a FABRICated Luminaire multiple cables must be used and the size of each cable should be in accordance with the remote distance required as shown.

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